

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1. (Withdrawn and Currently Amended) An actuation system for assisting the operation of a natural heart comprising:

an assistive heart-actuating dome structure that assists actuation of the heart, the dome structure configured for being coupled with a basal surface of a ventricular portion of the heart, the dome structure having at least one opening formed therein;

the dome structure, proximate the opening, being configured to interface with at least one of an atrial chamber and a great vessel of the heart; and

one of a stabilizing element and an actuating element being anchored to the dome structure for engaging a portion of the heart.

2. (Withdrawn) The actuation system of claim 1 wherein the dome structure is formed of a flexible material.

3. (Withdrawn) The actuation system of claim 1 wherein the dome structure is formed of a generally rigid material.

4. (Withdrawn) The actuation system of claim 1 further comprising a locking structure configured to be positioned internally of at least one of the atria or great vessels, the dome structure configured for interfacing with the locking structure through a wall of one of the atria or great vessels.

5. (Withdrawn) The actuation system of claim 1 further comprising a plurality of openings formed in the dome structure.

6. (Withdrawn) The actuation system of claim 1 further comprising:

a suture structure configured to be positioned internally of at least one of the atria and great vessels; and

sutures adapted to span a wall of one of the atria and great vessels and anchoring the dome structure with the suture structure.

7. (Withdrawn) The actuation system of claim 6 wherein the suture structure is an angioplasty ring.

8. (Withdrawn) The actuation system of claim 1 further comprising a cushion configured to be positioned between the dome structure and the heart.

9. (Previously presented) A heart-mounted structure for assisting the operation of a natural heart comprising:

an assistive heart-actuating dome structure that assists actuation of the heart, the dome structure configured for being coupled with a basal surface of a ventricular portion of the heart, the dome structure having at least one opening formed therein; and

the dome structure, proximate the opening, being configured to interface with at least one of an atrial chamber and a great vessel of the heart.

10. (Original) The heart-mounted structure of claim 9 wherein the dome structure is formed of a flexible material.

11. (Original) The heart-mounted structure of claim 9 wherein the dome structure is formed of a generally rigid material.

12. (Withdrawn) The heart-mounted structure of claim 9 wherein the dome structure is configured for interfacing, through a wall of one of the atria or great vessels, with a locking structure positioned internally of at least one of the atria or great vessels.

13. (Original) The heart-mounted structure of claim 9 further comprising a plurality of openings formed in the dome structure.

14. (Withdrawn) The heart-mounted structure of claim 9 wherein the dome structure includes an extension section extending therefrom configured to interface with at least one of the atria and great vessels.

15. (Withdrawn) The heart-mounted structure of claim 9 further comprising a sleeve for interfacing with at least one of the atria and great vessels, the dome structure holding the sleeve in place when positioned on the heart.

16. (Original) The heart-mounted structure of claim 9 wherein the dome structure includes a textured surface for interfacing with a heart surface.

17. (Original) The heart-mounted structure of claim 9 further comprising a cushion for positioning between the dome structure and the heart.

18. (Original) The heart-mounted structure of claim 17 wherein the cushion is coextensive with the entire dome.

19. (Original) The heart-mounted structure of claim 17 wherein the cushion interfaces with an opening in the dome.

20. (Original) The heart-mounted structure of claim 17 wherein the cushion is integral with the dome.

21. (Withdrawn) The heart-mounted structure of claim 9 further comprising a ring structure positioned around the opening in the dome structure.

22. (Original) The heart-mounted structure of claim 9 wherein the dome structure includes separated sections for positioning the dome structure proximate the atria or great vessels.

23. (Withdrawn) The heart-mounted structure of claim 9 further comprising at least one of a stabilizing element and an actuating element, the dome structure configured for interfacing with such an element to anchor the element.

24. (Withdrawn) The heart-mounted structure of claim 23 wherein the one of a stabilizing element and actuating element are integrally formed with the dome structure.